

METHOD AND SUBSTANCE FOR REACTIVE CATALYTIC COMBUSTION

ABSTRACT OF THE DISCLOSURE

A process of a catalytic combustion is disclosed. The process can be started at a cold temperature and raise to a desired high temperature in a very short time by employing a noble metal catalyst dispersed on a supporting material. Moreover, a method for dispersing a noble metal catalyst used in the catalytic combustion is also disclosed for increasing a specific surface area of the catalyst so as to facilitate the catalytic combustion. Furthermore, a substance including a boron nitride supported noble metal catalyst, a substrate for suspending the catalyst, and a supporting material for dispersing the substrate with said catalyst is also disclosed so that a total surface area of the catalyst can be increased, thereby the catalytic combustion can be initiated in a very short time.